

0052988

0514838

Waste Site Reclassification Form

| | | |
|----------------------------------|---|-------------------------------|
| Date Submitted: 9/27/1999 | Operable Unit(s): 200-MW-1 | Control Number: 99-084 |
| Originator: J. W. Golden | Waste Site ID: 216-B-61 | |
| Phone: 376-6961 | Type of Reclassification Action: Rejected <input checked="" type="radio"/> Closed-Out <input type="radio"/> No Action <input type="radio"/> | |

This form documents agreement among the parties listed below authorizing classification of the subject unit as rejected, closed-out, or no action and authorizing backfill of the site, if appropriate. Final removal from the NPL of no action or closed-out sites will occur at a future date.

Description of current waste site condition:

The unit is a crib that was built to receive intermediate level process condensate when the 216-B-50 Crib reached its radionuclide capacity. Process knowledge and remedial investigation sampling show that the 216-B-61 Crib was never used.

RECEIVED
APR 21 2000

EDMC

Basis for reclassification:

Process knowledge and sampling show that this crib was never used. Borehole sampling results of the crib are reported in the Phase I Remedial Investigation Report for 200-BP-1 Operable Unit, DOE/RL-92-70.

DAVID T. EVANS

DOE Project Manager

David T. Evans

Signature

1/14/00

Date

Ecology Project Manager

Signature

Date

Douglas R. Sherard

EPA Project Manager

Douglas R. Sherard

Signature

1/25/00

Date

Waste Information Data System

General Summary Report

1/6/2000

| | | | | |
|------------------------|--|------------------------|------------|--------|
| Site Code: | 216-B-61 | Site Classification: | Accepted | Page 1 |
| Site Names: | 216-B-61, 216-B-61 Crib | | | |
| Site Type: | Crib | Start Date: | 1968 | |
| Status: | Inactive | End Date: | | |
| Operable Unit: | 200-MW-1 | Coordinates: | | |
| Hanford Area: | 200E | (E) | 573349.625 | |
| | | (N) | 137696.953 | |
| | | Washington State Plane | | |
| Site Description: | The site is a backfilled crib that has never been used, and appears as a vegetated field. The surface is posted as a Soil Contamination Area, which is WIDS site 200-E-105. This contamination is assumed to be the result of wind-blown contamination, since boreholes, sampling, drawings, and process knowledge show that the crib was never used. | | | |
| Location Description: | The unit is 152 meters (500 feet) northwest of 241-BY Tank Farm and 61 meters (200 feet) south of 12th Street. | | | |
| Process Description: | The crib was built to receive intermediate level process condensate from the ITS #1 unit (located in the 241-BY Tank Farm) when the 216-B-50 Crib reached its radionuclide capacity. However, the 216-B-61 crib was never used. | | | |
| Associated Structures: | A 0.6 meter by 0.6 meter by 0.3 foot (2 foot by 2 foot by 1 foot) thick concrete pad was laid in the crib bottom. The crib was filled with 122 cubic meters (160 cubic yards) of 1.9 to 7.6 centimeter (0.75 to 3 inch) gravel. 279 square meters (3,000 square feet) of plastic membrane barrier were laid over the gravel. 22 cubic meters (30 cubic yards) of sand were laid over the membrane. A gage well constructed of vitrified clay 20 centimeters (8 inches) in diameter and 3.96 meters (13 feet long) extended from the crib bottom to 0.6 meters (2 feet) above grade. This vent pipe has a filter on top of the pipe. The bottom 0.6 meters (2 feet) of the pipe are perforated. A 10.2 centimeter (4 inch) diameter perforated pipe runs the length of the crib, 0.3 meters (1 foot) above the bottom of the crib. The length of the pipeline that leads from the waste line toward the crib is 266 meters (880 feet) long, 5.1 centimeters (2 inch) diameter carbon steel and was designed for a waste flow up to 45.4 liters (12 gallons) per minute with equal distribution over the crib area. However, the final 60 meters (200 feet) and the tie-in connecting the 216-B-61 Crib pipeline to the waste transfer line were never installed (per 1973 drawing H-2-34522, Rev. 2). | | | |
| | Groundwater wells 299-E33-25 and 299-E33-26 were originally drilled for the purpose of monitoring 216-B-61 Crib waste. | | | |
| | The surface of the crib and an extended area to the south is posted as a Soil Contamination Area (SCA). This SCA is WIDS site 200-E-105. | | | |
| Site Comment: | Prior to 1961, the crib had been posted with "Radiation" signs. A release survey for reposting was done on May 8, 1961 (survey #T81-0528). No contamination was identified and the radiation signs were removed. | | | |
| | In 1962, the 200-BP-1 Operable Unit Remedial Investigation project drilled a borehole (299-E33-307) through the 216-B-61 crib to confirm it had never received waste. No contaminants above background levels were detected in the borehole or the soil removed from the borehole. | | | |
| | While on site visits in 1996 and 1997, it was noticed that the 216-B-61 Crib and an extended area to the south of the crib was delineated with radiation rope and posted as a Soil Contamination Area (SCA). Since the crib was constructed and never used, the source of the contamination is assumed to be "blown-in" from another source. This SCA is WIDS site 200-E-105. The soil contamination is assumed to be the result of wind blown contamination from one or more adjacent contaminated sites. It has not been determined where the contamination originated. The contamination posting is believed to have been placed on the crib and adjacent area in 1996. The original radiological survey documenting the radiological conditions could not be found. A new radiological survey of the crib was done in October 1999 (survey number SS253016). This survey did not find any contamination above background levels. The adjacent posted area contained a large amount of blown in dried tumbleweeds. Due to the depth of the tumbleweed piles, it was not possible to walk in that area safely. The Radiological Control Technician (RCT) used a GM probe attached to a stick to reach into the area and do a spot check of the blown in tumbleweeds. No contamination above background levels were identified on the blown in tumbleweed inside the posted area. | | | |
| | No radiological survey records can be located that show the radiological conditions at the time it was posted or the date the area was posted. It is assumed the area was posted in 1996. The entire outline | | | |

of the 216-B-61 Crib (plus an area to the south) has been posted as a standard procedure. While the original radiation survey is not available to verify which areas were contaminated, when irregular areas of contamination are found, a larger area (usually the outline of any underlying facility) is usually posted.

References:

1. K. M. Harmon, et al, 8/75, Resource Book - Decommissioning of Contaminated Facilities at Hanford (Waste Management Facilities) App. XI (Draft), PNL-MA-588.
2. H. L. Maxfield, 4/1/79, Handbook - 200 Area Waste Sites (Volumes 1, 2 and 3), RHO-CD-673.
3. E. F. Curran, 5/72, 200 Areas Disposal Sites for Radioactive Liquid Wastes, ARH-947 R1.
4. S.M. McKinney, 12/08/84, Status of Outdoor Radiological Contamination at the Hanford Site, WHC-SP-1149.
5. 3/93, B Plant Source Aggregate Area Management Study Report, DOE/RL-92-05, Rev 0.
6. 8/5/88, Crib 216-B-61 Sections & Details, H-2-34523.
7. 9/15/83, Phase 1 Remedial Investigation Report for 200-BP-1 Operable Unit, DOE/RL-82-70, Rev 0.
8. Christine Webb, 2/10/97, Telecon from Chris Webb to Conan Wade related to the radiological posting on 216-B-61 crib.
9. A. Boston, 8/5/88, Specification for Excavation, Backfill, and Grading for Crib 216-B-61, HWS-7656.
10. L. W. Finch, 4/18/88, Project Proposal in Tank Solidification System #1 Waste Disposal Crib, 216-B-61 (Project HAP-624), ARH-479.
11. A. P. Burton, 1973, Crib 216-B-61 Plan & Profile & General Notes, H-2-34522, Sht 1, Rev 2.

Dimensions:

| | | |
|-----------|-----------------|-----------------|
| Length: | 53.34 Meters | 175.00 Feet |
| Width: | 3.05 Meters | 10.00 Feet |
| Sq. Area: | 162.58 sqMeters | 1,750.00 sqFeet |

Comment: Dimensions are bottom dimensions. Surface dimensions appear to be 200 feet by 50 feet.

References: 1. H. L. Maxfield, 4/1/79, Handbook - 200 Area Waste Sites (Volumes 1, 2 and 3), RHO-CD-673.
2. Waste Disposal Site, 216-B-61, H-2-34522.

Regulatory Information:**Programmatic Responsibility**

| | | | |
|---------------------------------------|---|-----------------------|-----|
| DOE Program: | EM-60 | Confirmed By Program: | Yes |
| DOE Division: | TPD - Transition Program Division | | |
| Responsible Contractor/Subcontractor: | FDH-RCP. Fluor Daniel Hanford - River Corridor Project. | | |

Site Evaluation

Solid Waste Management Unit: No

TPA Waste Management Unit Type:

Permitting

| | | | |
|---------------------------------|----|-------------------------------|----|
| RCRA Part A Permit: | No | 216/218 Permit: | No |
| RCRA Part B Permit: | No | NPDES: | No |
| Closure Plan: | No | State Waste Discharge Permit: | No |
| TSD Number: | | Septic Permit: | No |
| Air Operating Permit: | No | Inert Landfill: | No |
| Air Operating Permit Number(s): | | | |

Tri-Party Agreement

Lead Regulatory Agency: EPA

| | |
|----------------------------|----------------------------|
| Unit Category: | CERCLA Past Practice (CPP) |
| TPA Appendix: | C |
| Remediation and Closure | |
| Decision Document: | |
| Decision Document Status: | |
| Remediation Design Group: | |
| Closure Document: | |
| Closure Type: | |
| Post Closure Requirements: | |
| Residual Waste: | |

Waste Information:

Type: Steam Condensate
Category: Unknown
Physical State: Liquid
Description: This crib was built to receive condensate from the ITS (In Tank Solidification) unit, but never received any waste. It was never used.
References: 1. K. M. Harmon, et al, 8/75, Resource Book - Decommissioning of Contaminated Facilities at Hanford (Waste Management Facilities) App. XI (Draft), PNL-MA-588.
2. H. L. Madfield, 4/1/79, Handbook - 200 Area Waste Sites (Volumes 1, 2 and 3), RHO-CD-673.

Field Work:

Type: Site Walkdown
Begin Date: 02/10/1997 Field Crew: CR Webb
End Date: 02/10/1997
Purpose: Site Status
Comment: Both the crib and the adjacent area are posted with Soil Contamination signs.
Site Cover: Moderate Vegetation
Site Accessible: Yes Site Found: Yes
Soil Discoloration: No Debris Visible: No
Vegetation Type: Bunchgrasses
References: 1. Christine Webb, 2/10/97, Telecon from Chris Webb to Conan Wade related to the radiological posting on 216-B-61 crib.

Type: Site Walkdown
Begin Date: 07/30/1999 Field Crew: CR Webb
End Date: 07/30/1999
Purpose: verification
Comment: The crib and the adjacent area to the south are still posted with Soil Contamination Area signs.
References: 1. C. R. Webb, Field Logbook assigned to Christine Webb, EL-1255 and EL-1255-1.

Type: Radiation Survey**Begin Date:** 05/08/1981**Field Crew:** Ruben Olveda**End Date:** 05/08/1981**Purpose:** Release Survey

Comment: The crib was posted with Radiation Signs. The signs were removed following this survey. A GMP-11 probe and a road monitor vehicle with Ludlum count rate meters attached was used to survey the crib surface. No contamination above background was found (less than 100 counts per minute).

Radiation Survey Identification: T81-0525**Instrument:** GMP-11 Probe (15.5 sq cm) (Beta-Gamma)**Location Description:** 216-B-61 crib**Max Value:** 100**Max Value Units:** Counts Per Minute (c/m)**References:****Type:** Radiation Survey**Begin Date:** 01/25/1990**Field Crew:** Rick Bumgarner**End Date:** 01/25/1990**Purpose:** Special Survey of Crib Surface

Comment: No contamination above background levels was found on the crib surface, the crib perimeter, the growing vegetation or the blown in vegetation.

Radiation Survey Identification: SS253016**Instrument:** GMP-11 Probe (15.5 sq cm) (Beta-Gamma)**Location Description:** 216-B-61 Crib**Max Value:** 50**Max Value Units:** Counts Per Minute (c/m)**References:****Images:****Date Taken:** 2/18/88**Pathname:** \\bh002\wed-img\200E\0445\0445_01.JPG

Description: Photo shows an extension of the contamination area (site 200-E-105) that is adjacent to the south side of the 216-B-61 crib.

Date Taken: 2/18/88**Pathname:** \\bh002\wed-img\200E\0445\0445_02.JPG

Description: Photo shows the 216-B-61 crib. In February 1988, the crib was posted as a contamination area.